



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Richard T. Dean et al.

Art Unit: 1654

Serial No.: 08/236,402

Examiner: Jeffrey Russel

Filed

: May 2, 1994

: TECHNETIUM-99M LABELED IMAGING AGENTS Title

RECEIVED

JUL 2 9 2003 -

DECLARATION UNDER 37 C.F.R. § 1.132

TECH CENTER 1600/2900

I, RICHARD T. DEAN, declare as follows:

- I reside in Newmarket, New Hampshire. 1.
- 2. At the time that this application was filed, I was President and Chief Executive Officer of Diatech, Inc. (which subsequently changed its name to Diatide, Inc.), the Assignee of the above-identified patent application.
- 3. I have a Ph.D. in Chemistry from the University of California, Berkeley, and extensive knowledge of all aspects of radiolabelling of proteins and peptides, particularly radiolabelling with technetium 99m.
- 4. I am one of the named inventors in this application and, in April of 1990, I conceived of the concept of modifying the carboxy terminus or the N-terminus of peptides for labelling with technetium 99m in the manner set forth in this patent application.

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date of Deposit

Signature

Typed or Printed Name of Person Signing Certificate

Applicant: Richard T. DEAN et al. Attorney's Seeket No.: 09744-006001 / DITI 107

Serial No.: 08/236,402 Filed: May 2, 1994

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5. Attached hereto are copies of the front page and pages 1, 2, 3, 4, 161 and 162 of my notebook RTD 1. Pages 1-4 were signed by me on 11 April 1990. Pages 161 and 162 were signed by me on 16 September 1991.

I declare further that all statements made here of my own knowledge are true that all statements on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001 and that such willful false statements may jeopardize the validity of this application or any patent issuing thereon.

Signed at Newmarket, New Hampshire this 24 day of June, 2003.

Richard T. Dean

30152500.doc

RTD-1 THIS BOOK BELONGS TO Lichard T. Dean Diatech Inc. April 14, 1990 A record of research ideas

and research work performed for Distell Inc.

> HARVARD COOPERATIVE SOCIETY CAMBRIDGE, MASS.

Compositions for Modifying the Conboxy Terminus following composit

(continued from page 1) restide-c-44-Where I can be H, ocylor alkyl - Cys Gly Gly reptide-co(cHz)x c-NH-} septide - c-0 (CH2 CH20) (C+2) x c-Where I and y are small integer septide - co - Ser Ser Cys 7) septide-co-Cys Ser Ser peptide-co-Tyr Gly Cys Sichard T. Dean lead and understood by: 1/ lear be Pate; 41,190

Compositions for Modifying the N-Terminos of Poptides for Labeling with Technetium-99m the following compositions are proposed for labeling peptides with Tc-99m: (1) HSCH, C-MH-pertide 2) HSCHE MH-Gly CHY GHY-perticle HS CH2 C MH-Ser Ser Ser - peptide Cys Gly Gly-coNH-peptide 5) Cys Gly Gly Gly-CONA-pertide Subject T. Dean by: Much lambe

Cowpositions for Tanging with Technetion -9910 Le following septides are proposed for lobeling with To- 99m and imaging. 1) RGDGGC, RGDGGGC 2) RGDSGGC, RGDSGGGC 3) (44R4D) (44R4D) DEGGRADS, CGGARADS 5) Mercaptoacetyl-GGGRGD Mercaptoacetyl-GGGRGDS 6) marcopto acetyl-G-G-G-RGD RGD mercaptoacetyl-GGG-NH-(cH2), CO-RGD(5) Where x=0-6 Chibard 1. Dlan lead + undertood by: Antin Camble Date: 4/8.191

extide with a Group for Labeling with To Ifin 9/16/91 An 1/35 system for lobeling

extides with Tc-99un is proposed as follows:

P-S-C-Co (aa,) (aa,) (aa) peptule. es de is my sum acist (ie, X huiting lang HSC(UB), LO-GGGRGDF Vitneral Coy.

1 .

162 Te-Alm Labeled Pentiles have a C-terminal wo are auful for Witnesday i